

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A laser ~~Laser~~ microdissection system with a microscope for observing a biological material located on an object carrier, the system comprising:

 ~~with~~ a laser device for excising a biological object from the biological material by means of laser radiation[~~[,]~~]; and

 ~~with~~ at least one holder that is designed for use in the laser microdissection system in such a way that it can hold a receptacle device having a plurality of receptacle containers, each receptacle container provided for receiving the biological object excised from the biological material, for operation with the laser microdissection system, wherein:

 the at least one holder has a coding that identifies the type of receptacle device[~~[,]~~]; and

 identification means are provided for identifying the receptacle device held in each case by the holder by evaluating the coding of the holder, and control means are provided and are designed in such a way that, depending on the receptacle device identified in each case, they provide selection functions specific to the receptacle device for the allocation of individual biological objects to be excised from the biological material to individual receptacle containers of the receptacle device identified in each case.
2. (Previously Amended) Laser microdissection system according to claim 1, wherein the identification means are designed for the optical scanning of the coding of the holder.

3. (Previously Amended) Laser microdissection system according to claim 1, wherein the identification means are designed for the inductive scanning of the coding of the holder.
4. (Previously Amended) Laser microdissection system according to claim 1, wherein the identification means are designed for the capacitive scanning of the coding of the holder.
5. (Previously Amended) Laser microdissection system according to claim 1, wherein the control means are designed in such a way that, depending on the identified receptacle device, they form an image of the identified receptacle device on a reproduction device.
6. (Previously Amended) Laser microdissection system according to claim 1, wherein the control means are designed in such a way that, depending on the identified receptacle device, they provide selection functions specific to the receptacle device for the automatic manipulation of the receptacle device.
7. (Previously Amended) Laser microdissection system according to claim 1, wherein the control means are designed in such a way that, depending on the identified receptacle device, they manipulate in a manner specific to the receptacle device an adjustment device of the microscope system to which the holder is to be coupled, in order to position the receptacle device in the microscope system with the aid of the adjustment device.
8. (Previously Amended) Laser microdissection system according claim 1, wherein image recording means for recording an image of the receptacle device are provided, and whereby the control means are designed in such a way that, depending on the identified receptacle device, they manipulate the image recording means in a manner specific to the receptacle device in such away that these automatically remove the receptacle device in order to record an image of the receptacle device.
9. (Previously Amended) Laser microdissection system according to claim 8, wherein the control means are designed in such a way that after a dissection procedure they

automatically manipulate the image recording means in order to record the image of the receptacle device at least in a region of those receptacle containers in which the biological objects are dissected.

10. (Previously Amended) Laser microdissection system according to claim 1, wherein the control means are designed in such a way that, depending on the identified receptacle device, they prepare in a manner specific to the receptacle device a dissection protocol for a dissection work sequence carried out with respect to the receptacle device-90).

11. (Previously Amended) Laser microdissection system according to claim 1, wherein the holder comprises a frame for holding the receptacle device.

12. (Previously Amended) Laser microdissection system according to claim 1, wherein the coding is an optically scannable coding.

13. (Previously Amended) Laser microdissection system according to claim 12, wherein the coding comprises comb-like projections that extend from the holder, whereby the receptacle device is identified by the arrangement of the projections.

14. (Previously Amended) Laser microdissection system according to claim 12 wherein the coding comprises a barcode.

15. (Previously Amended) Laser microdissection system according to claim 1, wherein the coding comprises an inductive coding.

16. (Previously Amended) Laser microdissection system according to claim 1, wherein the coding comprises a capacitive coding.

17. (Previously Amended) Laser microdissection system according to claim 15, wherein the coding comprises a transponder.

18. (Previously Amended) Laser microdissection system according to claim 1, wherein the holder is designed to hold a receptacle device that is selected from a group comprising a cap, a tube, a microtitre plate and arrangements thereof.

19. (New) A laser microdissection system with a microscope for observing a biological material located on an object carrier, the system comprising:

a laser device for excising a biological object from the biological material by means of laser radiation; and

at least one holder that is designed for use in the laser microdissection system in such a way that it can hold a receptacle device having a plurality of receptacle containers, each receptacle container provided for receiving the biological object excised from the biological material, for operation with the laser microdissection system, wherein:

the at least one holder has a coding that identifies the type of receptacle device; and

a receptacle identifier for identifying the receptacle device held in each case by the holder by evaluating the coding of the holder, and a controller, depending on the receptacle device identified in each case, the controller providing selection functions specific to the receptacle device for the allocation of individual biological objects to be excised from the biological material to individual receptacle containers of the receptacle device identified in each case.

20. (New) A laser microdissection system for use with a microscope for observing a biological material located on an object carrier, the system comprising:

a laser radiation excising device for excising a biological object from the biological material with laser radiation;

a multi-receptacle device having a plurality of receptacle containers, each of the receptacle containers shaped to receive the biological object excised from the biological material, the multi-receptacle device having at least one type;

at least one multi-receptacle holder shaped to hold the multi-receptacle device thereat and having an identification coding for ascertaining the type of the multi-

receptacle device;

a coding evaluator operable to identify the multi-receptacle device held by the multi-receptacle holder dependent upon the respective identification coding; and

a controller operable to, depending on the multi-receptacle device respectively identified, provide selection functions specific to the multi-receptacle device for allocating individual biological objects excised from the biological material to individual ones of the plurality of receptacle containers.